

CATEGORY 700 LANDSCAPING

SECTION 701 — TOPSOIL AND SUBSOIL

701.01 DESCRIPTION. This work shall consist of salvaging topsoil and subsoil, placing salvaged topsoil and subsoil, and placing furnished topsoil and subsoil as specified in the Contract Documents or as directed by the Engineer.

701.02 MATERIALS.

Salvaged Topsoil	920.01.01
Furnished Topsoil	920.01.02
Salvaged Subsoil	920.01.03
Furnished Subsoil	920.01.04
Agricultural Limestone	920.02
Miscellaneous Landscaping Items	920.08

701.03 CONSTRUCTION. When soil or weather conditions are unsuitable, the Contractor shall cease topsoil and subsoil operations until directed by the Engineer to resume.

701.03.01 Salvaging Topsoil and Subsoil.

- (a) **Evaluation.** Topsoil and subsoil infested with any parts (seed, rhizomes, stolons, roots, etc.) of Johnsongrass, Canada Thistle, or Phragmites will be evaluated by the Administration prior to the salvaging operations to determine the severity of the infestation. The evaluation will determine how the topsoil and subsoil are to be used and to establish a means of preventing the spread of these weeds.
- (b) **Removal.** Topsoil and subsoil shall be removed from selected areas specified in the Contract Documents or as directed by the Engineer. Prior to removing topsoil and subsoil, the Contractor shall mow or remove all vegetation over the areas where topsoil and subsoil are to be salvaged. Topsoil and subsoil shall be removed to the depth as directed by the Engineer. The topsoil and subsoil shall be transported and stockpiled in separate storage piles and kept separated from other materials.
- (c) **Storage.** Storage areas for topsoil and subsoil shall be constructed on well drained land, away from live streams, and in conformance with Section 308. Prior to placing piles, the

Contractor shall install silt fence around the perimeter of the stockpile area and maintain the silt fence until vegetation is established. Topsoil and subsoil shall be kept in neat and separate piles separated from other excavated material. The piles shall be seeded with temporary seed immediately after final shaping of the pile. Temporary seeding shall conform to Section 704.

- (d) **Excess.** Excess topsoil and subsoil will become the property of the Administration and any removal will require written approval from the Engineer.

701.03.02 Placing Salvaged Topsoil and Subsoil.

- (a) **Evaluation.** The Administration will reevaluate salvaged topsoil and subsoil infested with any parts (seed, rhizomes, stolons, roots, etc.) of Johnsongrass, Canada Thistle, or Phragmites prior to placing, to establish a means of preventing the spread of these noxious weeds.
- (b) **Surface Preparation.** The Contractor shall completely prepare and finish the surface of all areas to be covered with topsoil and subsoil as specified in the Contract Documents. Immediately prior to being covered with topsoil, the prepared surface shall be in a loose condition and be free from stones or other foreign material 3 in. or greater. When topsoil is placed on a prepared surface material that blends with the topsoil or subsoil, the Contractor shall work the topsoil or subsoil into that material by means acceptable to the Engineer. When topsoil or subsoil will not blend with the prepared surface material, the Contractor shall roughen the surface to provide a bond for the topsoil or subsoil.
- (c) **Loading and Hauling.** Prior to the start of the hauling operations, all grass, weeds, brush, stumps, and other objectionable material shall be removed from the surface of stockpiles.
- (d) **Placing and Spreading Topsoil.** Topsoil shall be placed, spread, and maintained over the areas designated to the depth, that after settlement, the completed work shall be in conformance with the thickness, lines, grades, and elevations specified in the Contract Documents. Stones and other foreign material larger than 3 in. shall be removed and disposed of by the Contractor. Slopes 4:1 to 2:1 shall be tracked with cleated tract type equipment operating perpendicular to the slope.
- (e) **Placing, Spreading, and Compacting Subsoil.** Subsoil shall be placed, spread, and compacted in maximum layers of 8 in. to

produce a uniform firm layer of subsoil. The completed work shall be in conformance with the thickness, lines, grades, and elevations specified in the Contract Documents. Stones and other foreign material larger than 4 in. shall be removed and disposed by the Contractor. Slopes 4:1 to 2:1 shall be tracked with cleated tract type equipment operating perpendicular to the slope.

701.03.03 Placing Furnished Topsoil and Subsoil. Refer to 701.03.02 and the following:

- (a) **Contractor Responsibility.** The Contractor shall make all arrangements and assume all responsibility for consents, agreements, and payments with property owners involved in topsoil and subsoil operations.
- (b) **Administration's Soil Test Reports.** Limestone and soil amendments shall be added as specified in the Administration's soil test reports and 705.03.01(d) or 705.03.02(b).
- (c) **Storage.** If the material is stockpiled upon delivery for future use on the project, the stockpiling shall conform to 701.03.01(c).

701.04 MEASUREMENT AND PAYMENT. The payment will be full compensation for the preparation of surfaces, loading, hauling, placing, supplying, and spreading limestone and soil amendments, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

701.04.01 Salvaged topsoil will not be measured but the cost will be incidental to the Contract price for Class I Excavation.

701.04.02 Salvaged subsoil will not be measured but the cost will be incidental to the Contract price for Class 1 Excavation.

701.04.03 Placing Salvaged Topsoil will be measured and paid for at the Contract unit price per square yard for the depth specified.

701.04.04 Placing Salvaged Topsoil for Grading Adjustment will be measured and paid for at the Contract unit price specified in the Contract Documents.

701.04.05 Placing Salvaged Subsoil will be measured and paid for at the Contract unit price per cubic yard.

701.04.06 Placing Furnished Topsoil will be measured and paid for at the Contract unit price per square yard for the depth specified.

701.04.07 Placing Furnished Topsoil for Grading Adjustment will be measured and paid for at the Contract unit price specified in the Contract Documents.

701.04.08 Placing Furnished Subsoil will be measured and paid for at the Contract unit price per cubic yard.

SECTIONS 702 — 703 RESERVED

SECTION 704 — TEMPORARY SEEDING AND TEMPORARY WOOD CELLULOSE MULCHING

704.01 DESCRIPTION. This work shall consist of furnishing and placing fertilizer, temporary seed, mulch and wood cellulose fiber on cuts, fills, and other soil areas, which cannot be shaped and permanently vegetated for an extended period of time as specified in the Contract Documents or as directed by the Engineer.

704.02 MATERIALS.

Fertilizer	920.03.01
Seed	920.04.01 and 920.04.02
Mulch	920.05.03
Wood Cellulose Fiber	920.05.04
Water	920.08.01

704.03 CONSTRUCTION. Temporary seeding and temporary wood cellulose mulching shall be done any time of the year, as directed by the Engineer. Grading and shaping operations may be required before temporary seeding.

704.03.01 Temporary Seeding. Temporary seeding shall consist of preparing soil, seeding, fertilizing, mulching and applying wood cellulose fiber binder. Temporary seeding shall be done to areas that will remain undisturbed for one month or more.

- (a) **Soil Preparation.** Soil shall be loosened from the grading operation. Compacted soil surfaces shall be loosened as approved by the Engineer before seed is applied.
- (b) **Seeding, Fertilizing, and Mulching.** Seeding, fertilizing and mulching shall conform to 705.03.01 and 705.03.02.